Data Management and Interoperability

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The DMI Challenge

- Data is redundant, not shared, and often conflicting.
- Current acquisition process does not adequately address data, data standardization, and interoperability.
- Lack of enterprise management and engineering processes to solve cross-system, cross-Service data problems.

Enterprise Strategy

- Strategic Planning Meeting, August 1999.
- Board of Representatives IPT, November 1999.
  - Strategic Plan
  - SECNAVINST
  - Implementation Planning Guide
  - Metadata Repository Requirements
- Metadata Repository Pilot

DMI Strategic Goals

- *Provide a data management infrastructure that will ensure maritime Information Superiority.*
- *Reduce the life cycle cost of data through integration, standards, and the use of authoritative data sources.*
- *Provide a DMI repository and tools to support IT assessments and engineering.*
- *Provide a data architecture which addresses both information requirements and data capabilities.*
- *Provide processes and metrics to enable and evaluate data management and data engineering.*

SECNAV Instruction 5000.36

Purpose

- Establish Policy & Assign Responsibilities to Implement and Unify DON Data Management & Interoperability Efforts

- Provide Processes, Procedures, Products, and Tools to Achieve Data Interoperability

- Implement DoD Directive 8320.1 "DoD Data Administration", 26 Sep 1991

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SECNAV Instruction 5000.36 Scope

- Applies to Databases and Data Exchange in War-fighting and Business Systems

- Applies to All Navy & Marine Corps Including Supporting Establishment

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Major Thrusts of DMI Policy

- Establish Infrastructure Responsible for Data Management & Interoperability (DMI)
- Establish & Implement Common Data Management Processes and Procedures
- Designate and Use Authoritative Data Sources (ADSs)
- Fund DMI Infrastructure Req'ts thru Planning, Programming and Budget System (PPBS)

Responsible Agents

- Resource Sponsor
- Functional Managers
- System Developers

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Resource Sponsor Responsibilities

- Ensure DMI Needs are Funded in POM
- Ensure Systems Incorporate Approved Data Standards and Use of Functional ADSs
- Serve as Functional Area Managers
- Designate Functional Data Managers

Functional Data Manager Responsibilities

- **Implement processes to produce and monitor use of data within/across activities, info. systems, computing & communications infrastructures.**
- **Assist Program Managers in the registration of data exchange formats and systems/application metadata.**
- **Develop and maintain functional area views of the DON data architecture.**
- **Develop candidate DoD Standard Data Elements**
- **Coordinate proposed data standards with the DoD and other Service/Agency data managers.**
- **Designate authoritative data sources (ADSs)/**

System Developer Responsibilities

- Implement DMI Processes, Procedures, Tools
- Register and Maintain Systems Metadata in the DMI Repository (DMIR)
- Identify ADSs in coordination with Functional Manager
- Designate Single POC to Coordinate DMI Issues

Functional Areas

Functional / Resource Area	Resource Sponsor	Functional Data Managers
…		
Logistics	OPNAV N4 / HQMC I&L	OPNAV N401H
Readiness	OPNAV N4 / HQMC PP&O	OPNAV N401H
…		

5000.36 "Action"

- CNO/CMC Designate Service Data Administrators and Functional Data Managers w/in 30 Days of 5000.36 Date
- Navy and Marine Corps Data Administrators Identify DMI Current (Execution) Year, Budget Year and Out-year Funding Requirements and priorities for submission to cognizant major claimant and applicable resource sponsor

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DMI Issue for NLIB-WG

- Implementation & Institutionalization of 5300.36 within DoN